

Notice of Allowability

Application No.

10/632,425

Examiner

Bernarr E. Gregory

Applicant(s)

HALL ET AL.

Art Unit

3662

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment received on 03 May 2004.
2. ☒ The allowed claim(s) is/are 7-33.
3. ☒ The drawings filed on 01 August 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



Bernarr E. Gregory
Primary Examiner
Art Unit: 3662
Tel.: (703) 306-5765

1. The following is an examiner's statement of reasons for allowance:

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicants' claimed method as set forth in independent claim 7 that is particularly characterized at least by the claimed method steps of "transmitting a second impulse radio signal from the first location"; "receiving the second impulse radio signal at the second location"; "generating a second waveform which ..."; and "comparing the first waveform and the second waveform to determine whether there is a change ..." taken together and taken in the overall context of independent claim 7.

Dependent claims 8-10 are allowable for at least the reasons for which claim 7 is allowable.

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicants' claimed method as set forth in independent claim 11 that is particularly characterized at least by the claimed method steps of "generating a second waveform which is a time domain representation of a received second impulse radio signal that indicates a multipath structure of a propagation channel of a transmitted second impulse radio signal" and "comparing the first waveform and the second waveform to determine whether there is a change between the first waveform and the second waveform indicative of an intruder entering a protection zone" taken together and taken in the overall context of independent claim 11.

Dependent claims 12-14 are allowable for at least the reasons for which claim 11 is allowable.

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicants' claimed method as set forth in independent claim 15 that is particularly characterized at least by the claimed method steps of "generating a plurality of waveforms, each of the plurality of waveforms being time domain representations of one of the plurality of impulse radio signals received at the second location that indicates a multipath structure of a propagation channel of the corresponding one of the transmitted plurality of impulse radio signals" and "comparing two of said plurality of waveforms to determine whether ..." taken together and taken in the overall context of independent claim 15.

Dependent claims 16-18 are allowable for at least the reasons for which claim 15 is allowable.

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicants' claimed apparatus as set forth in independent claim 19 that is particularly characterized at least by the claimed "receiving impulse radio unit for receiving ..." and "processor for comparing ..." taken together and taken in the overall context of independent claim 19.

Dependent claims 20-24 are allowable for at least the reasons for which claim 19 is allowable.

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicants' claimed apparatus as set forth in independent claim 25 that is particularly characterized at least by the claimed "processor for generating a second waveform ..." and "processor for comparing ..." taken together and taken in the overall context of independent claim 25.

Dependent claims 26-28 are allowable for at least the reasons for which claim 25 is allowable.

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicants' claimed apparatus as set forth in independent claim 29 that is particularly characterized at least by the claimed "first receiving impulse radio unit ..." and "processor for generating a plurality of waveforms ... for comparing two of said plurality of waveforms to determine ..." taken together and taken in the overall context of independent claim 29.

Dependent claims 30-33 are allowable for at least the reasons for which claim 29 is allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. These changes are merely editorial for issuance and printing purposes, so authorization from Applicants' attorney was not sought.

In the middle of page 1 of the Specification, after the number "2001," insert --now U.S. Patent 6,614,384,--.

On line 8 of page 17 of the Specification, after "09/592,250," insert --now abandoned,--.

On line 27 of page 17 of the Specification, after "09/592,290", insert --,now abandoned,--.

On line 29 of page 17 of the Specification, after "09/591,691," insert --now abandoned,--.

On line 29 of page 19 of the Specification, after "2000," insert --now U.S. Patent 6,636,566,--.

On line 20 of page 20 of the Specification, after "2000," insert --now U.S. Patent 6,671,310,--.

On line 12 of page 23 of the Specification, after "1999," insert --now abandoned,--.

At the end of line 4 of page 34 of the Specification, delete "1999" and insert --2000--therefor.


On line 25 of page 34 of the Specification, after "1999," insert --now U.S. Patent 6,571,089,--.

At the end of line 13 of page 40 of the Specification, after "2000," insert --now U.S. Patent 6,556,621,--.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernarr E. Gregory whose telephone number is (703) 306-5765. The examiner can normally be reached on weekdays from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas H. Tarcza, can be reached on (703) 306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


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